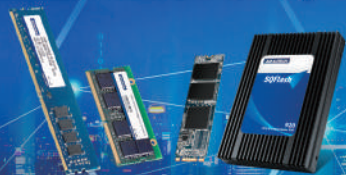


**ADVANTECH**

*Enabling an Intelligent Planet*

# Industrial Peripheral, Software Distribution and Services

Industrial Flash & Memory Solutions



Industrial Wireless Solutions



Wireless ePaper Solutions



Industrial Display Solutions



Software Distribution



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# Industrial Peripheral, Software Distribution and Services

Advantech provides full range of modules and embedded software solutions for design-in services, empowering industrial manufacturing IoT and AIoT transformation. With multiple peripheral modules and complete software integration solutions, customers can rapidly implement their solution and accelerate the time to market.

## Wireless Solutions

**1,000,000**

1,000,000 wireless module shipments to 100+ satisfied clients

## Flash & Memory

**8,000,000**

8,000,000 SQFlash and SGRAM shipments with <800 dPPM outstanding quality

## Software Distribution

**8,000,000+**

Over 8,000,000 software license shipments to date

## Display

**1,200,000**

1,200,000 shipments from thousands of customers globally

## ePaper

**20,000**

20,000 shipments for 40+ large-scale customers



Industrial Wireless Solutions



Industrial Flash & Memory Solutions



Software Distribution



Wireless ePaper Solutions



Industrial Display Solutions



# Why Advantech?

Innovation and customer-centric philosophy has made Advantech a trusted partner for over 40 years. Our customer-centric design-in services ensure industrial-grade reliability and deliver edge to cloud integrated solutions across a diverse range of industries.

Industry leader

# No.1



Industrial PC worldwide  
market share

Global reach, local presence

# 28

Country offices, 14 service centers,  
and 4 logistics centers worldwide

Edge Computing Coverage Capability

# 4,636, 000

AIoT intelligent systems and embedded platforms shipped and  
12,550 clients supported. (2021/08-2022/08)

Software intelligence

# 700

Software projects achieved per year with 200+ software  
specialists, and 40+ Microsoft Certified Experts

Industrial ecosystem

# 400

New product launches, from boards and systems to  
peripherals and software with integration capabilities

# Expand Your Business with Us

At Advantech we are proud of our partners for being a part of our business success and ambition, today and in the future. Together, we empower every client to achieve more.

As a Microsoft partner for many years, the Advantech team's passion and dedication for all things IoT are evident across everything they do. Advantech's connected solutions, Azure IoT certified devices, and their role as an authorized Microsoft Distributor enable them to help build the Azure IoT edge ecosystem and deliver the best edge-to-cloud smart IoT applications.



**Vice President,  
Device Partner  
Solution Sales  
Lakecia Gunter**



**NXP**  
**Executive Vice  
President and  
General Manager,  
Connectivity &  
Security and Edge  
Processing  
Rafael Sotomayor**



At NXP, we have a comprehensive portfolio of efficient, durable, and scalable solutions that are designed to meet the needs of IoT and industrial applications today and tomorrow. We are proud to work with Advantech as an NXP Gold Partner, one of the world's elite wireless vendors with a reputable history of servicing the industrial wireless market.

Advantech has always been a key and important partner of Phison. Through the advanced NAND controller technology of Phison, and integrating Advantech's experience in software and hardware platforms, it creates the future of the Internet of Everything with customers together.



**CEO  
KS Pua**



**President  
FY Gan(PhD)**



We believe working closely with partners such as Advantech is the key to succeed. With Advantech's systems and E Ink's sustainable displays, together we are able to make the IoT world smart and green.

AUO Display Plus is proud of the long-term cooperation with Advantech in providing industry-leading display solutions for versatile applications. By joining forces, Advantech and AUO Display Plus offer a wide range of high-quality, reliable, and customized display products that meet market requirements. We look forward to strengthening our partnership with Advantech and co-creating more possibilities.



**AUO Display+**

**President  
ShihHong Liao**



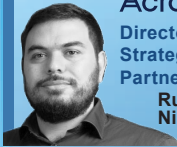
**President  
James Yang**



Standing as a key component supplier to Advantech for the past decade, we witness that Advantech commits for its reliability and long term partnership to the market. Innolux is very proud of keeping the line with Advantech to provide the most advanced technology, highest quality, reliable supply chain in display and the comprehensive product service.

IoT on the edge side of thing has always been low volume, diverse, complicated and a bit purposely built. We believe by teaming up with Advantech, together, we will be able to fulfill this need.

**Acronis**  
**Director of  
Strategic  
Partnerships  
Rubens  
Nigoghossian**



Advantech is a Global Leader in the IoT space, and our long-term strategic partner. By partnering with Advantech we bring to IoT environments Acronis' integrated and automated Cyber Protection, solving the modern digital world challenges of safety, accessibility, privacy, authenticity and security (SAPAS). Complexity within the IT industry has created unmanageable risks exacerbated by disparate systems not designed to work together. Our view is to give customers control of their environments, by offering an integrated platforms that ensures optimal protection for all data, applications and systems in the face of modern cybersecurity threats.

Mildex has been deeply engaged in touch display modules in the industrial PC, military and medical industry, and has accumulated design experience and capability to support customized total solutions. The cooperation with Advantech focuses on non-consumer product applications. We are flexible to fulfill customized needs for different end customers. Mildex will keep implementing the 3S concepts (Symbiosis/Superiority/Sustainability) to have long-term stable cooperation with Advantech to create win-win for both companies.



**Chairman  
Lillian Chao**



AMT is a leading supplier of touch panels and touch solution from Taiwan. We have been the partner of Advantech for two decades by providing high-quality total touch solutions, efficient and effective pre-sales and after-sales services, and long-term supply. AMT's market covers industrial, automotive, medical, and commercial fields. We have supported Advantech's projects with standard products or customized touch solutions to facilitate many innovations of Advantech. We congrats Advantech on being the world leader in industrial PCs and will continue to support Advantech unreservedly in your journey to great success!

Advantech is a leading company for industry, IoT applications in Taiwan, Through the cooperation with ISSI, based on ISSI DDR3 memory components, we can provide high quality, longevity and wide temperature rate solutions together to meet industrial customers' demand.



Advantech is a current user and developer of advanced semiconductors, SK hynix and Advantech are important partners. SK hynix can support the Memory products for Advantech SQR series are promoted in the global market such as big data, artificial intelligence (AI), the Internet of Things (IoT).



**Canonical  
General  
Manager  
Tony Chiang**



**General Manager  
Ted Lin**



**VP of Marketing  
Ted Chang**

# Building a Strategic Partner Ecosystem that Empowers Clients

Advantech works with business partners to co-create industrial peripheral and software ecosystems to accelerate the goal of industrial intelligence. Hand-in-hand with our strategic partners, Advantech can provide a full complement of edge-to-cloud solutions and IoT consulting services to maximize the client's value.

Acronis	Ami	ARROW ARROW ELECTRONICS, INC.	AUO AUO Display+	Canonical Ubuntu
DEKRA	Eink	HIGGSTEC TOUCH SOLUTION	hitron 仲琦科技	INNOLux
innodisk	INNOGRIT	ISSI	KingSteel	McAfee
Micron	Microsoft	Microsoft Azure	MILDEX OPTICAL INC. 榮茂光學股份有限公司	MOUSER ELECTRONICS
NXP	PHISON	Qualcomm	SK hynix	



# Rise of the Robots

The global industrial robotics market size is expected to reach US\$ 116,848.7 million by 2030. Based on applications, the global industrial robotics market is segmented into material handling, assembling & disassembling, welding & soldering, dispensing, processing, machine tending, inspection, and other applications. At Advantech, our experts are there to assist you with all your robotic projects. We offer industrial robotic peripheral choices for various industrial sectors - all from a single source. See how our robot solutions can change your industry.

## Acronis Cyber Protect Backup

The Acronis backup & recovery solution can avoid shutdown and loss of the production line caused by downtime to ensure advanced data protection.

## Windows 10 IoT

Windows 10 IoT Enterprise LTSC is an operating system designed for industrial devices that bring enterprise-class power, security, and manageability to the robotics industry.

## Ubuntu Desktop 20.04

For robots that run Linux, we are able to provide the Ubuntu service with up to 10-year long-term support.

## Industrial Display Solutions

This robot used an IDK-1112 12.1" panel with 500 nits brightness that enables excellent display performance during indoor use.

## Industrial Flash & Memory Solutions

Speed and efficiency are key for robotics to replace human workers on repeatable and multiple tasks. A reliable SSD, SQF 650 SATA sTLC series and memory, SQR-SD5N delivers stable performance and enhances plant efficiency.

## Industrial Wireless Solutions

AIW 100 series products can support fast roaming and good connectivity in AGV and OHT applications, enhancing robotics actions and processes.

## Industrial Display Solutions

The AGV system with a build-in control panel is designed with IDK-1107W, a 7" panel with 500 nits brightness and integrated projected capacitive (PCAP) touch screen for easy, gloved and ungloved operation.

## Wireless ePaper Solutions

EPD-230 is a place-and-play design which could be easily installed field side without wires. Most important is its battery life time is up to 50,000 times of image updates.



# Going Green

The global climate has changed rapidly in recent years. According to the research, industrial production and logistics operations account for more than half of global CO<sub>2</sub> emissions from fuel combustion. Leading companies are taking action to reduce their carbon footprint. How to achieve “green planning” has become a topic of rapid global climate change. Advantech’s industrial peripheral solutions have helped many customers successfully build smart cities, green factories and facilities that achieve efficient, low-carbon, and digital transformation goals.

## Industrial Flash & Memory Solutions

In outdoor applications, temperature changes are challenges for SSD and DRAM operational reliability and stability. SQFlash 650/ 720 Series, and SQR-SD4I deliver a diverse range of extended temperature solutions with low power consumption to provide an efficient solution.

## Ubuntu Desktop 20.04

The smart city sector is bringing innovation and automation to urban areas globally. From real-time to air-gap, the scale is vast and new solutions emerge every day to address unique challenges. Ubuntu Desktop 20.04 ensures extensibility and guarantee a secure software environment with Advantech’s services.



## Industrial Wireless Solutions

AIW-300 series cellular modules provide low latency, high reliability, and high capacity, enhancing network connectivity. Moreover, AIW-200 series GNSS modules support concurrent reception of 4 GNSS to ensure meter-level accuracy in challenging conditions such as railway communication.

## Windows 10 IoT

Windows On Arm is perfect for device builders targeting small form factors, low cost, low power IoT devices. For customers who are currently familiar with Windows Apps and want to cut budgets by using ARM- based hardware.

## Industrial Display Solutions

The IDP31-150 series support IP67 front frame design for water and dust resistance that protects against outdoor environments. The monitor supports 500 nits and 1200 nits high brightness options with light sensors built in to support auto-dimming.

## Wireless ePaper Solutions

EPD-780 and EPD-770 are applied in smart bus stop solutions, providing traffic status and announcements from the government at the same time. These ePaper panels are installed on busy crossroads while streaming road directions as well as public emergency alerts. Under sunlight, no extra power is needed when displaying content.



# Smart Medical

AI and IoT hold enormous potential for the future of the healthcare industry. Connected smart devices can greatly enhance diagnostics, patient care, and data analysis. See how Advantech industrial peripheral solution accelerates medical IT solution deployment to free up clinician times, save money, and deliver the best experience.

## Industrial Display Solutions

IDK-1121WP touch displays can help with interactive operations and show instructions directly on the display on the display to save operating time.

IDK-1112P touch display kits leverage easily-cleaned bezel-free designs that help reduce instances of infection and dust accumulation.

## Windows 10 IoT

Windows 10 IoT Enterprise LTSC enhances stability, security, reliability of medical devices and instruments and reduces frequency of repairs and maintenance.

## McAfee Embedded Control

McAfee whitelisting solutions block unapproved installs to reduce in-hospital breakage and reduce patching cycles. Low overheads keep systems running smoothly.

Wi-Fi 5 Wi-Fi 6

## Industrial Wireless Solutions

Hospitals and clinics need powerful systems to ensure accurate diagnosis. The data goes through the Wi-Fi system and is delivered to the hospital system for future tracking. AIW-163BR and EWM-W159 ensure stable connectivity as an essential part of medical systems.

## Ubuntu Desktop 20.04

Ubuntu runs the open source software the courses are based on. Ubuntu Desktop 20.04 ensures better stability and reliability over other Linux distributions.

## Wireless ePaper Solutions

EPD-660 smart bedside cards can assist with numerous tasks ranging from traditional form input for digital record-taking to issuing name tags for identity confirmation, as well as notifying medical staff of patients' specific needs. They provide medical staff, patients, and their families with up-to-date synchronized information.

## Industrial Flash & Memory Solutions

Ultra-high resolution image and inspection quality is very important for MRI and CT scanners. High performance SQR- SD5(E) and SQF 920 PCIe BiCS5 series with DRAM cache and ECC function support can deliver precise data transition and ensure high reliability.



# Wireless Edge Networking Innovations

Beyond Wi-Fi 6E x 5G x GNSS

Advantech's Industrial Wireless (AIW) solutions provide market leading Wi-Fi 5/6/6E/7, 4G LTE, 5G NR, GPS/GNSS, and Bluetooth 5.2 technology. AIW solutions are reliable and robust with platform interoperability aimed at industrial customers. Combining worldwide wireless certifications — such as FCC & CE-RED — with wireless design-in services, AIW delivers a one-stop shopping experience that helps embedded customers accelerate their AIoT product development.



Transportation



AGV



Medical



Smart  
Lighting

**ADVANTECH**  
**AIWireless**  
Advantech Industrial Wireless



Bridge



Construction



Aquaculture



Logistics

**Wi-Fi 6, Wi-Fi 6E**  
**Multiple OS Support**



**4G LTE, 5G NR**  
**Multiple Form Factors**



**GPS/ GNSS**  
**High Precision**



GNSS Compare  
Research lab in your pocket

**RF Antenna &  
Wireless Software**



**Design-in  
Service**



# ePaper Smart Factory Solutions

Low Power / 2-Way Communication / Centralized Control

Advantech provides hardware and software integrated wireless ePaper solutions that accelerate the implementation of a wide range of applications. These solutions, comprising ePaper devices, routers, and DeviceOn/ePaper software, are used in smart warehouse and factory digital signs, industrial equipment peripherals, and public workspaces. Advantech's DeviceOn/ePaper enables easy visualized system management and provides diverse RESTful APIs that ease integration within existing applications.



Ultra-low Power



Fast Transmission



TAIWAN EXCELLENCE  
SILVER AWARD 2022



2-way  
Communication



Centralized ePaper  
Manager

## DeviceOn/ePaper

Centralized ePaper Management

### Smart Factory

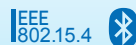
2.9"



EPD-210, EPD-230, EPD-232

### Smart Building

5.65"



EPD-332

### Smart Hospital

13.3"



EPD-660, EPD-662

### Smart City

31.2"



EPD-770, EPD-870

# IoT Focused SSD & Memory Total Solutions

## Leading PCIe Gen. 4 SSD & DDR5 Memory

Advantech provides a comprehensive memory and storage portfolio, including SSD, DDR, and I/O extension modules. Security (SQ) is at the core of our solutions, therefore we are committed to providing high-quality modules and security with corresponding software utilities. These include McAfee anti-virus, Acronis solutions, and Advantech DeviceOn/SQ Manager, which simplifies real-time status and lifespan monitoring. Advantech delivers total solutions with intelligent software package for a diverse range of embedded, automation, transportation, and networking applications.

### DeviceOn/SQ Manager

#### Medical

High-end image processing ability



SQF-S4B 650 SQR-SD4N  
SQF-CU2 ER-1 SQR-SD5N

#### Automation

Outstanding performance to ensure high durability



SQF-SMS 650 SQR-UD5N  
SQF-C8M 720 SQR-UD5(ECC)

#### Transportation

Rugged design with FIPS & MIL certification



SQF-S25 840 SQR-YD4  
SQF-CM8 920 SQR-SD4E

#### Energy

Extended temperature support with low power consumption



SQF-S8B 650 SQR-SD4M  
SQF-S10 650 SQR-SD4N



# Comprehensive Industrial Display Solutions

## Leading Industrial Display Expert

Advantech designs, develops, and manufactures display systems that meet the demands of various global system integration markets. These include gaming, automation, kiosk, and medical markets. By combining proven technologies and flexible manufacturing, Advantech creates class leading solutions that deliver significant product differentiation and competitive advantages. Our customer-centric approach reinforces all of our activities and is an essential part of the thousands of products we ship daily.



### Medical Testing Equipment

EMI shielding touch panel kit

#### IDK Series

- Excellent noise immunity
- Works with bleach cleaning liquid
- Anti fingerprint treatment



### Self-service Kiosk

Proflat touch monitor

#### IDP Series

- Outdoor kiosk display solution
- IP65/ IP67 front panel design
- Frameless and light weight



### Gaming

Gaming touch monitor

#### CRV Series

- 43" curved touch monitor
- 23.8" and 27" frameless touch monitors
- LED lighting strip integrated
- Programmable LED control



# Leading Global IoT Software Distributor

## Your Trusted Software Partner

Advantech provides complete IoT solutions that help customers easily integrate Advantech hardware and software products. We support the most popular open source projects and leading technologies in an effort to provide the best solutions. Likewise, we offer Microsoft Windows IoT/ Embedded OS, McAfee Security, Acronis Backup & Recovery and Ubuntu software services for use in embedded systems that require augmented security.



### Backup & Recovery

- Active protection mechanism
- Complete backup and recovery
- Centralized remote management
- Fast deployment

### Operating System

- 10-year life cycle
- CPU adaptive product
- Real-time technical support
- Advantech power suite exclusive add-on tool

### Whitelisting Protection

- Authority management
- Centralized management and monitoring
- McAfee manager exclusive add-on tool

### Ubuntu Desktop LTS

- 5~10 years of long-term support (LTS) from both Advantech and Ubuntu
- GUI ready Linux OS



# Embedded Software Add-on Services

## Efficient Device Management and Application Development

Advantech provides a full range of Microsoft Windows IoT/Embedded OS designed to run on embedded systems such as POS, kiosks, digital signage, automotive computers, automation devices, and small footprint, real time, and handheld devices. We offer ready-to-use embedded OS images and a complete set of built-in applications, such as the Advantech Power Suite, SUSI API, WISE-DeviceOn and McAfee Manager to enable efficient device management and application development.

### Advantech Power Suite

#### Windows OS Enhancement Tool

- Windows 10 IoT lockdown utility
- OS image backup & recovery
- OS enhancement utility

### McAfee Manager

#### Whitelisting Protection Manager

- System & file protection
- Whitelist & certification management
- Change password

## Embedded Software Add-on Services

### DeviceOn

#### IoT Device Operation Management

- Remote device management
- OTA software updates
- Device secure control

### Embedded Software APIs

#### Drivers Simplify Access to Device Data

- IoT standard compliant
- Multiple 10 control
- Cross operation systems

### Customization Setup

Provide superior user experience without assistance from technical staff

### Operation Safety

Prevent end-users from modifying OS settings for devices in public areas

### Application Extension

Access to external modules or devices for application development





# The IoT Display Solution for the Last Mile Delivery

## Background

The global well-known company manufactures and sells machines and machine tools in Japan. The company has continued to innovate many first-in-the-world technologies. According to the trend, parcel Lockers have grown in popularity over the last few years and are becoming a necessity as more and more consumers purchase items online. The customer are developing easy-to-use parcel locker solution enables user to track parcels and notify recipients of delivery in real-time. Package pick-up takes seconds, and lockers can be accessed 24/7 for convenient self-service pick-up. Therefore, the parcel locker kiosk would need to install with a touch display for interactive operation which could provide quick and precise feedback and easy operation.

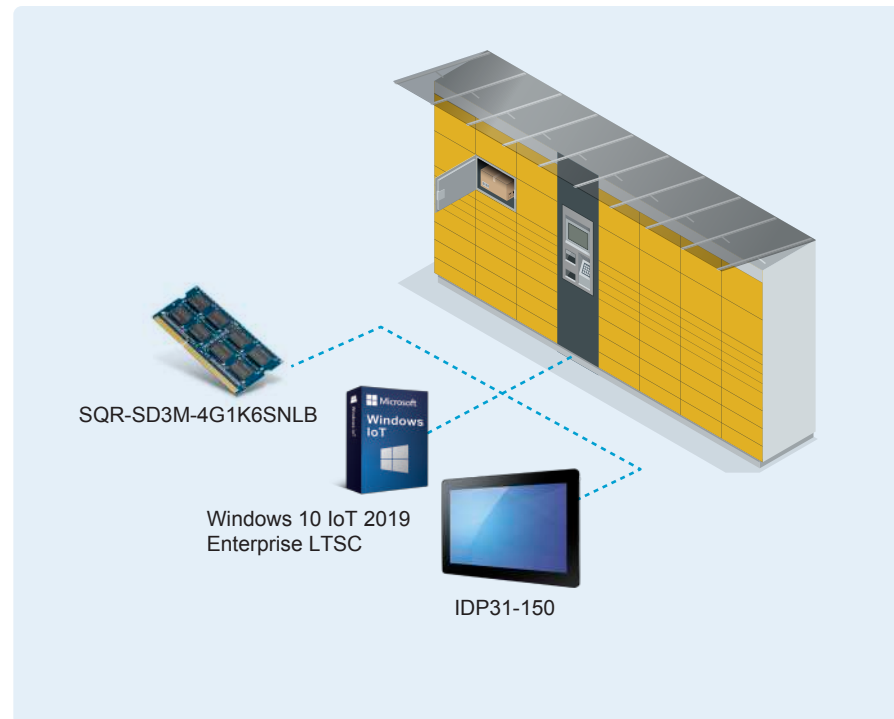


## Why Advantech

Parcel locker kiosks need to provide service 24/7 for convenient self-service pick-up. Therefore, it would need to install with a touch display for interactive operation which could provide quick and precise feedback and easy operation. As the industrial IoT device supplier, Advantech provides customer not only industrial peripheral products but software solution which helps customer to get the solution in one stand.

## Supporting List

- IDP31-150 series with high brightness solution and IP67 rated front frame design that support rugged environment in outdoor application.
- Windows 10 IoT 2019 Enterprise LTSC.
- SQF-S25 840 series feature high performance, long endurance and AES/OPAL technologies. To provide long time operation and security protection. It can also be used with Advantech software "DeviceOn/SQ Manager" to achieve remote monitoring of product lifetime status.
- SQR-SD3M extended temperature memory is the exclusive solution in the industrial market to support -20~85°C for outdoor environment.



# Data Security for Medical Electronic Devices

## Background

A global medical device developer and manufacturer based in Shenzhen China, delivered numerous equipment and devices for patient monitoring and life support, medical imaging and in-vitro diagnostics to customers around the world, including nearly 110,000 medical institutes in China.

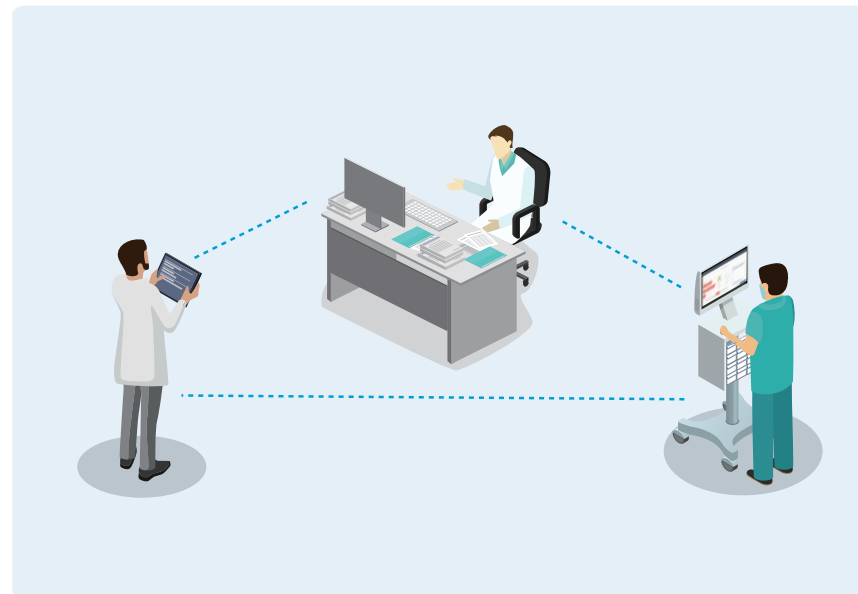


## Why Advantech

- Advantech provides customers with pre-sale model selection services to improve stability, safety and reliability of medical devices and instruments, including introduction to Microsoft's legal norms, device selection and comparison, along with design-in services, e.g. image customization.
- With Advantech after-sales service support, our client can reduce maintenance time and save on R&D resources.

## Supporting List

- McAfee – Whitelisting Protection.
- Microsoft – Windows IoT 2019 LTSC/Windows IoT Server 2019.
- AIW-163 provides OFDMA and MU-MIMO volume data and displays images, helping doctors check and diagnose patients in a timely manner.
- SQF- SMS 650 features data security protection through AES and OPAL encryption technologies, and provides multiple temperature support for different applications.
- SQR-SD3N delivers a stable supply when the DRAM market faces serious shortages.







Know More



### Windows 11 IoT Enterprise

- For smart devices with annual release updates, lock down, or full edition of Windows 11 with OEM image.
- Features include TPM 2.0 requirement, USB 4.0 support, Wi-Fi 6E, Windows Subsystem for Linux GUI (WSLg).
- Usage scenarios: industrial tablets, retail point of service, devices designed for HMI interactive applications and other IoT smart devices.

### Windows 10 IoT Enterprise

- Full-featured edition of Windows 10 IoT delivers enterprise manageability and lock-down capabilities for fixed-function smart devices with 10-year support.
- Features include soft real-time, unified write filter (UWF) updates, windows subsystem for Linux (WSL), GPU compute support, and customizable windows update UX.
- Usage scenarios: industry tablets, retail point of service, kiosk, digital signage, ATM, medical devices, manufacturing devices, thin clients.

### Windows Server IoT

- Full version Windows server delivers enterprise manageability and security to fixed purpose IoT solutions.
- Features include advanced multi-layer security, hybrid capabilities with Azure, platform.
- Usage scenarios retail, manufacturing, healthcare, and more.



### True Image OEM version

- Limited functionality subsets of Acronis True Image.
- The only backup that actively fights ransomware.
- Full disk image, dedicated functions for full disk backup, file/folder backup and scheduling.

### Cyber Backup

- Stores backups to a variety of storage devices — including local disks, network storage, and the cloud.
- Acronis Active Protection to stop ransomware attacks.
- Minimizes expensive downtime by restoring Windows and Linux systems to dissimilar hardware - including bare metal physical, virtual, or cloud environments.

### Snap Deploy

- Mass provisioning – rapid deployment of a single disk image to multiple machines.
- Deployment to live machines – start deployment to live Windows machines without manually booting individual machines from the network.
- Flexible deployment options – automatic, user-initiated, and scheduled.



### Application Control

- Proactive protection reduces maintenance work.
- Prevents un-authorized application installation.
- Protects against 0-day attacks automatically.

### Embedded Control

- Application control.
- Access rights control- who, when, what.
- Prevents out-of-policy changes.
- File integrity monitoring for compliance.

### Integrity Control

- Embedded control.
- Centralized management.
- Manage McAfee configurations and policies from a single location.
- Generate performance and compliance reports automatically.



### Desktop

- Full-blown graphic UI OS.
- Consistent OS experience across platforms. Users could work with the exact same underlying OS on their desktops as they do on their servers, in the cloud, and on IoT devices.
- Ubuntu Desktop LTS releases are supported by Canonical for five years with bug fixes, security updates, and hardware enablement.
- Extra 5 years of support and services can got by paid service.
- The depth and breadth SDK of Ubuntu Desktop makes it the preferred platform for AI, ML, and DL.

### Ubuntu Core

- Light-weight command-line OS.
- Optimized for IoT sensor devices.
- Ubuntu Core is a container OS built on snaps. With snaps, embedded systems benefit from security, immutability, as well as modularity and composability.
- Software is updated over-the-air through deltas that can automatically roll-back in case of failure.



Know More

### Industrial Display Kit

#### IDK Series

*Embedded / High Bright design*



- Versatile size: from 5.7" ~ 21.5".
- Touch Panel: Resistive 4/5Wire & PCAP.
- Warranty: 2 years with extension to 5 years.
- High brightness of 1200nits.

### IP65 monitor

#### IDS-3300 Series

*Built for Water and Dust Resistant Applications*



- Front frame IP65 design Water and dust resistance.
- Outdoor and factory environment suitable.
- Versatile touch solution : resistive and P-cap touch / glass.
- Panel mounting design.

### Stretched Display

#### DSD-5000 Series



- 28", 38" with super wide ratio 16:3 and 16:4.5.
- High brightness support with 50,000 backlight life hours.
- Slim, lightweight design for space saving
- RS232 remote control supported.

### Slim Open Frame/Panel Mount Monitors

#### IDS-3000 Open Frame Monitor

*Bezel-less Design / Front Bezel Design*



- -20 ~60°C wide range operating temp. support.
- Combo RS232 & USB interface for touch options.
- Max. 70,000 hours for LED life.
- Compliant with standard VESA mounting holes.

### Ultra Thin Proflat Monitor

#### IDP31 Series

*Professional Grade 100% Flush & Sealed Monitors*



- 10.1"~21.5" Front frame IP67 rated for water and dust resistance.
- True flat surface – contemporary proflat style.
- Slim, lightweight design with narrow bezel.
- Panel mount integration.

### Curved Display

#### CRV Series



- 43" in ultra HD (3840 x 2160) with 1500R curvature.
- Projected capacitive (PCAP) multi-touch to 10 points.
- VGA, display port, HDMI interface.
- Custom bending and monitor. configuration available.

### Digital Signage Display

#### DSD-3000 Series



- 32", 42", 55" multiple size support.
- Full-HD (1920x 1080) content playback support.
- Slim, lightweight design with narrow bezel.
- Multiple signal interface : VGA / HDMI / DisplayPort.



### DeviceOn/Display

- Supports display OSD function adjustment by central control.
- Monitors display operating status.
- Records working hours and changes History.





Know More

### ► SQFlash Industrial Storage Modules

#### PCIe



##### SQF-CU2 ER-1

- U.2 (SFF-8639) PCIe Gen. 4 x4 SSD, up to 6.4TB
- AES-256 support & TCG-OPAL compliant
- Read-Intensive and mixed-Use support



##### SQF-C25 920

- U.2 (SFF-8639) PCIe Gen. 3 x4 SSD, up to 7.6TB
- AES-256 support & TCG-OPAL compliant
- Supports LDPC & RAID ECC



##### SQF-C8M ER-1

- M.2 2280 PCIe Gen. 4 x4 SSD, up to 3.2TB
- AES-256 support & TCG-OPAL compliant
- Read-Intensive and mixed-use support



##### SQF-CM8 920

- M.2 2280 PCIe Gen. 3 x4 SSD, up to 1.9TB
- AES-256 support & TCG-OPAL compliant
- Supports LDPC & RAID ECC



##### SQF-C8B/C8M 720

- M.2 2280 PCIe Gen. 3 x2/x4 SSD, up to 2TB
- AES-256 support & TCG-OPAL compliant
- w/ H/W write protection function
- Supports LDPC & RAID ECC

#### SATA



##### SQF-S25 650

- 2.5" SSD, SATA 6.0 Gbps, up to 2TB
- AES-256 support & TCG-OPAL compliant
- w/ H/W write protection function
- Multiple temperature range selection



##### SQF-S8B 650

- M.2 2280, SATA 6.0Gbps, up to 2TB
- AES-256 Support & TCG-OPAL compliant
- w/ H/W write protection function
- Multiple temperature range selection



##### SQF-SMS 840

- mSATA, SATA 6.0Gbps, up to 1.9TB
- AES-256 support & TCG-OPAL compliant
- Supports LDPC & RAID ECC



##### SQF-SMS 650

- mSATA, SATA 6.0Gbps, up to 2TB
- AES-256 support & TCG-OPAL compliant
- w/ H/W write protection function
- Multiple temperature range selection

### ► SQRAM Industrial Memory Modules

#### DDR4



##### SQR-SD4N

- 260-pin SODIMM DDR4 3200/2666
- 2GB/4GB/8GB/16GB/32GB
- Locked BOM, 3-year longevity
- Dynamic monitoring software support



##### SQR-SD4(ECC)

- 260-pin SODIMM DDR4 3200/2666
- 4GB/8GB/16GB/32GB
- ECC function, ( 0~85°C / -40~85°C )
- Dynamic monitoring software support



##### SQR-UD4N

- 288-pin UDIMM DDR4 3200/2666
- 2GB/4GB/8GB/16GB/32GB
- Anti-sulfur module
- Dynamic monitoring software support



##### SQR-UD4(ECC)

- 288-pin UDIMM DDR4 3200/2600
- 4GB/8GB/16GB/32GB
- ECC function, ( 0~85°C / -40~85°C )
- Dynamic monitoring software support

#### DDR5



##### SQR-SD5N

- 262-pin SODIMM DDR5 4800
- 8GB/16GB/32GB
- Locked BOM, 3years longevity



##### SQR-SD5(ECC)

- 262-pin SODIMM DDR5 4800
- 16GB/32GB
- ECC function, ( 0~85°C / -40~85°C )



##### SQR-UD5N

- 288-pin UDIMM DDR5 4800
- 8GB/16GB/32GB
- Locked BOM, 3-year longevity



##### SQR-UD5(ECC)

- 288-pin UDIMM DDR5 4800
- 16GB/32GB
- ECC function, ( 0~85°C )



##### SQR-RD5N

- 288-pin RDIMM DDR5 4800
- 16GB/32GB/64GB
- Register, ECC function



## DeviceOn/SQ Manager

- SQFlash health status and lifespan prediction
- Temperature monitoring and warning for SQRAM
- Remote device monitoring, maintenance, and alarms
- Comprehensive data security management package



Know More

### Smart Warehouse and Factory



#### EPD-210, EPR-210, EPD-230,232

- 2.9" EPD in red/black/white
- Excellent roaming and transmission performance
- EPD-210 battery less NFC connectivity
- EPD-230, 232 ultra-low power consumption with Zigbee-like connectivity, battery life up to 50,000 times image updates

### Smart Meeting Room



#### EPD-332, 333 | WISE-3240

- 5.6" EPD in red/ black/ white, colored.
- Excellent roaming and transmission performance.
- EPD-332 ultra-low power consumption with Zigbee-like connectivity, battery life up to 6,000 times image updates

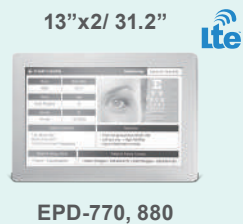
### Smart Building and Hospital



#### EPD-660, 662 | WISE-3220

- 13.3" EPD in red/black/white, Black/White
- Wi-Fi supported, easy installation without power cables.
- Ultra-low power consumption with battery lasts up to 8 months (3 times/day).

### Smart Public Transportation



#### EPD-770, 880 | WISE-3270

- 13"x2/ 31.2" EPD-770/780 bus information board.
- 13"x2/ 31.2" EPD in black/white.
- Sunlight readable for outdoor signs.
- No power needed during natural disasters.

### Wireless ePaper Routers and Software



#### DeviceOn/ePaper ePaper Management I.App

- Device management.
- Image generator.
- Firmware OTA.



#### Azure Cloud Server

- 4 x CPUs (B4ms).
- 128 GB SSD and 16 GB RAM.
- 500 connection licenses of DeviceOn/ePaper.



#### ARK-2250L Enterprise Server

- Intel 6<sup>th</sup> Gen Intel® Core™ U-series (i7).
- 1TB SATA HD and 16G RAM.
- 500 connection licenses of DeviceOn/ePaper.



#### ARK-1123H Value Server

- Intel Celeron J1900 Quad Core 2.0 GHz SoC.
- 128GB SATA III SSD and 8G RAM.
- 100 connection licenses of DeviceOn/ePaper.



Know More

## ▶ AIW 100 Series (Wi-Fi, BT)

**AIW-154 (Wi-Fi 5 + BT 5.0)***M.2 2230 E key*

- NXP 88W8997
- Operating Temp: -30 ~ 85°C (-22 ~ 185°F)
- Interfaces: PCIe/UART

**AIW-163 (Wi-Fi 6 + BT 5.2)***M.2 2230 A-E key*

- Realtek 8852BE
- Operating Temp: 0 ~ 70°C (32 ~ 158°F)
- Interfaces: PCIe/USB

**AIW-165/AIW-164 (Wi-Fi 6 + BT 5.3)***M.2 2830 E key / LGA*

- NXP 88W9098
- Operating Temp: -40 ~ 85°C (-40 ~ 185°F)
- AIW-165 Interfaces: PCIe/UART
- AIW-164 Interfaces: SDIO & PCIe /UART

**AIW-166K (Wi-Fi 6E + BT 5.3)***M.2 2230 A-E key*

- Intel® AX210 6E
- Operating Temp: 0 ~ 70°C (32 ~ 158°F)  
-40 ~ 85°C (-40 ~ 185°F)
- Interfaces: PCIe /USB



## ▶ AIW 200 Series (Standalone GNSS)

**AIW-210/AIW-211 (GNSS)***M.2 2242 Key B/ SD type*

- u-blox Neo-M9N
- Operating Temp: -40 ~ 85°C (-40 ~ 185°F)
- Interface: USB 2.0
- Multiple-form factor for design

**AIW-212 (GNSS)***Half Size mini-PCle*

- u-blox Neo-M9N
- Operating Temp: -40 ~ 85°C (-40 ~ 185°F)



## ▶ AIW 300 Series (4G, 5G)

Coming Soon

**AIW-341 (4G LTE Cat4.)***M.2 3042 Key B*

- Qualcomm MDM9607
- Operating Temp: -40 ~ 85°C (-40 ~ 185°F)
- EU and CN 2 version

**AIW-343 (4G LTE Cat4.+ GNSS)***Full size mini-PCle*

- Qualcomm MDM9207
- Operating Temp: -40 ~ 85°C (-40 ~ 185°F)
- With SIM Slot
- NA, EU, and JP 3 version

**AIW-344 (4G LTE + GNSS)***Full size mini-PCle*

- Qualcomm MDM9607
- Operating Temp: -40 ~ 85°C (-40 ~ 185°F)
- NA, EU, and JP 3 version

**AIW-346 (4G LTE Cat4.+ GNSS)***Full Size mini-PCle/ M.2 3052 Key B*

- Qualcomm MDM9607
- Operating Temp: -30 ~ 80°C (-22 ~ 176°F)
- Multiple form factors with full size mini-PCle & SIM Slot
- Device level carrier certificate

**AIW-355 (5G NR SUB 6)***M.2 3052 Key B*

- Qualcomm SDX55
- Operating Temp: -30 ~ 75°C (-22 ~ 167°F)
- Interface support for USB 3.1
- NA, EU, and CN 3 version

**AIW-357 (5G NR SUB 6)***M.2 3052 Key B*

- MediaTek T700
- Operating Temp: -30 ~ 70°C (-22 ~ 158°F)
- Interface support PCIe/ USB 3.0
- TW, NA, EU and JP 4 version





# Our Services



## Leading Technologies

Global leader in the fields of IoT intelligent systems and embedded platforms.



## Global Service Team

Dedicated regional service team to ensure local services and support with flexibility and efficiency.



## Partner Ecosystem

Streamlined design-in services shorten design and integration cycles, ensuring time to market.



## Software Intelligence Support

Seasoned software service team offers experienced technical support to accelerate product deployment.



## One-stop Shop

Reliable one-stop-shop customer-centric and scenario-based solutions and services.

## Regional Service and Customization Centers

<b>China</b>	Kunshan 86-512-5777-5666	<b>Taiwan</b>	Taipei 886-2-2792-7818	<b>Netherlands</b>	Eindhoven 31-40-267-7000	<b>Poland</b>	Warsaw 00800-2426-8080	<b>USA</b>	Milpitas, CA 1-408-519-3898
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## Worldwide Offices

### Asia Pacific

<b>Taiwan</b>	
Toll Free	0800-777-111
Taipei & IoT Campus	886-2-2792-7818
Taichung	886-4-2372-5058
Kaohsiung	886-7-392-3600
<b>China</b>	
Toll Free	800-810-0345
Beijing	86-10-6298-4346
Shanghai	86-21-3632-1616
Shenzhen	86-755-8212-4222
Chengdu	86-28-8545-0198
Hong Kong	852-2720-5118

### Middle East and Africa

Israel	072-2410527
Turkey	90-212-222-0422
Turkey-Bursa	90-224-413-3134

### Asia Pacific

<b>Japan</b>	
Toll Free	0800-500-1055
Tokyo	81-3-6802-1021
Osaka	81-6-6267-1887
Nagoya	81-0800-500-1055
Nogata	81-949-22-2890
<b>Korea</b>	
Toll Free	080-363-9494/5
Seoul	82-2-3660-9255
<b>Singapore</b>	
Singapore	65-6442-1000
<b>Malaysia</b>	
Kuala Lumpur	60-3-7725-4188
Penang	60-4-537-9188
<b>Thailand</b>	
Bangkok	66-02-2488306-9
<b>Vietnam</b>	
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<b>Australia</b>	
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Melbourne	61-3-9797-0100
<b>India</b>	
Bangalore	91-94-4839-7300
Pune	91-94-2260-2349

### Europe

<b>Netherlands</b>	
Eindhoven	31-40-267-7000
Breda	31-76-523-3100
<b>Germany</b>	
Toll Free	00800-2426-8080/81
Munich	49-89-12599-0
Düsseldorf	49-2103-97-855-0
<b>France</b>	
Paris	33-1-4119-4666
<b>Italy</b>	
Milan	39-02-9544-961
<b>UK</b>	
Newcastle	44-0-191-262-4844
London	44-0-870-493-1433
<b>Spain</b>	
Madrid	34-91-668-86-76
<b>Sweden</b>	
Stockholm	46-0-864-60-500
<b>Poland</b>	
Warsaw	48-22-31-51-100

<b>Russia</b>	
Moscow	8-800-555-01-50
St. Petersburg	8-812-332-57-27
	8-921-575-13-59
<b>Czech Republic</b>	
Ústí nad Orlicí	420-465-524-421
<b>Ireland</b>	
Galway	353-91-792444

### Americas

<b>North America</b>	
Toll Free	1-888-576-9668
Cincinnati	1-513-742-8895
Milpitas	1-408-519-3898
Irvine	1-949-420-2500
Ottawa	1-815-433-5100
Chicago	1-888-576-9668
<b>Brazil</b>	
Toll Free	0800-770-5355
São Paulo	55-11-5592-5367
<b>Mexico</b>	
Toll Free	1-800-467-2415
Mexico City	52-55-6275-2777